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## WATCHSTATIONS (CONT'D)

304	Deck Rigger . . . . .
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## OPERATIONS PQS USER'S GUIDE

guide will explain the Personnel Qualification Standards (PQS) is, and how to use it.

### IS PQS?

is a part of your Command's overall training program. It provides requirements to qualify on a Watchstation/Workstation. It is a qualifying officer and enlisted personnel in certain assigned duties assist you in becoming a more productive member of the "combat and Navy team."

### WHAT MAKES UP THE PQS PROGRAM?

PQS program consists of the Standard booklet and the Progress Chart.

The Standard booklet contains questions you must be able to answer. It lists items you must be able to do in order to qualify for a particular Watchstation/Workstation. Standards are written by naval personnel after they ask themselves, "What do I need to know to do the job properly?"

The Standard booklet is made up of the following parts:

1. TABLE OF CONTENTS
2. USER'S GUIDE
3. DEFINITIONS OF WORDS USED IN PQS
4. CONTRIBUTING FLEET PERSONNEL
5. ENLISTED SURFACE WARFARE SPECIALIST (ESWS) CROSS-REFERENCE
6. FUNDAMENTALS AND SYSTEMS SUMMARY
7. FUNDAMENTALS (100 SECTION)
8. SYSTEMS (200 SECTION)
9. QUALIFICATION SECTION
10. WATCHSTATIONS/WORKSTATIONS (300 SECTION)
11. FEEDBACK FORM

The Progress Chart is used to display all the Standards in progress. It has been completed by your division or work center. Your division uses the progress chart to determine who is qualified to stand the watch and perform the tasks required by your division. You should check the progress chart periodically to make sure all of the Standards you have completed are properly recorded.

03 - Indicates section 2 (System section) and that it is the 3rd

the Systems section of your Standard booklet, you may find a form  
the following example. For item .21 you must answer questions A  
m .22 answers to questions A, B and C are required. If there is  
s, all questions must be answered.

## .2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components  
and component parts:

- A. What is its function?
- B. Where is it located?
- C. What are the safety/protective devices?

A	B	C
X	X	
X	X	X

- .21 Trolley block
- .22 Transfer chair

### Qualification Group Numbering System

The Watchstation/Workstation section (300) is divided into qual  
Your book may be used for more than one final qualification su  
. Each group is indicated on a Final Qualification Sign-Off Page  
:

Example: NAVEDTRA 43396-Q1

- 43396 - Indicates NAVEDTRA number assigned to the PQS pac
- Q1 - Indicates the first qualification group

1. FUNDAMENTALS (100 Section) This section identifies basic  
to do the job properly. Normally you would have acquired this k  
the school phase of your training. If you have not been to scho  
ments are outlined and the references listed will aid you in a s  
1.

2. SYSTEMS (200 Section) In systems, the subject under discu  
en down into functional sections that may be compared to the ele  
in your car. The components of the electrical system are scatte  
out your car, but taken all together they form the "electrical

3. WATCHSTATIONS/WORKSTATIONS (300 Section) This section describes the procedures you need to know to properly perform your job. Watchstations are divided into final qualification "groups" (Qual 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) each group containing the following:

a. Final Qualification Sign-Off Page

Final record that is filed in your training jacket and recorded in your Service Record upon final qualification

b. Qualification Summary Page

Record of completion of other PQS qualifications, and Watchstations/Workstations within a qualification group

c. Watchstations/Workstations (Task Sign-Off Pages)

Record of completion of performed tasks for each Watchstation/Workstation and instruction watches required by each Watchstation in a qualification group

## HOW TO QUALIFY

A. Your division officer or work center supervisor will issue a booklet. Your supervisor will assign Watchstations/Workstations and establish limits (goals) for completing your qualification. Progress toward qualification will be monitored on the division/work center Progress Report. Estimated completion time, shown at the beginning of each Watchstation/Workstation, is only a recommendation and may be modified by your commander. It indicates how long it will take the average sailor under normal conditions to complete each Watchstation/Workstation.

B. Open your Standard booklet to your assigned Watchstation/Workstation. At the beginning of the Watchstation/Workstation you will find a list of prerequisites that must be completed before starting your tasks. Standards may include other Watchstations/Workstations other than the one on which you are working. Concentrate on the prerequisites for the Watchstation/Workstation to which you have been assigned and do not delay your qualification by spending time on other tasks.

C. Complete the Safety Precautions Fundamentals first, then the

## SUPERVISOR

As a senior petty officer, you will be required to assign junior personnel to complete specific Watchstations/Workstations in PQS. When assigning, always look through the Standard booklet to determine other items that could be completed before work is started on the required Watchstations or related Fundamentals and Systems. If you are assigning a Watchstation/Workstation or section to be completed, it is your responsibility to determine which one should be completed first. The supervisor is an essential part of the PQS program if it is to be successful. If you add your own insight, you will find that PQS is a helpful tool that can fit into any overall training plan. You will be responsible for the accuracy, tailoring of PQS to fit your command's needs, as well as for the incorporation of appropriate feedback to the PQS Development Group (feedback forms are at the back of each Standard booklet). You should provide motivation to trainees by assigning goals, showing interest, and following the trainees' progress. The supervisor is responsible for training and should be the one to create and maintain the progress chart. It is important that the supervisor be aware of who is and who is not progressing, as well as where counsel and additional instruction may be needed. A sample PQS progress chart can be found in the PQS Manager's Guide (NAVEDTRA 43100-1B). As a supervisor you must be familiar with the duties, responsibilities, and assignments of Qualification Petty Officers. Your PQS program cannot survive without proper planning and quality control.

The estimated completion time, shown at the beginning of each Watchstation/Workstation, is only a recommendation and may be modified as needed. It indicates how long it will take the average sailor under normal conditions to complete each Watchstation/Workstation.

## QUALIFICATION PETTY OFFICER

Selection as a Qualification Petty Officer means that you are the command's subject matter experts on those Fundamentals, Systems, and Watchstations/Workstations assigned to you. PQS cannot be successful without you. Your job is to be totally knowledgeable in your assigned areas, to be available to check off your trainees' achievements, and to ensure that a high-quality PQS program is maintained in your division.

Each Qualification Petty Officer should have a set of standard signatures for each Watchstation/Workstation so that all trainees receive the same. If multiple signatures are required for a line item, it is preferable to have a signature every day or one watch elapse between signatures. If the trainee does not

## DEFINITIONS OF WORDS USED IN PQS

NEW EVOLUTION - A grouping of aircrew tasks that measure performance over the course of a flight

COMPONENTS - Major units that make up a system when properly connected

COMPONENT PART - A major part of a component

CONTROL SIGNAL - A signal used to control electronic or mechanical devices

EMERGENCY - An event or series of events in progress that will cause damage to equipment or personnel unless immediate corrective steps are taken

FOUNDAMENTALS - Basic facts, theories, laws or principles (100 Section)

INTERLOCK - A protective device to prevent the unsafe operation of equipment in a sequence the action of systems, components or component parts

MAINTENANCE ACTION - A maintenance technician qualification that measures the ability to perform a designated task

MAINTENANCE OPERATION - A qualification that measures the ability to perform maintenance (using established procedures) to determine the need for maintenance

MINIMUM OPERATING VALUE - The point at which satisfactory performance may be expected

MONITOR - A variable (temperature, pressure, flow rate, voltage, current, frequency etc.) that must be indicated, monitored, checked or sensed during operation or testing

PROTECTIVE FEATURE - A device designed to prevent damage or injury

TRIP POINT - The point in a system at which a signal may be detected

WARNING POINT - The value of a parameter at which: (a) an alarm is set off, (b) operator action is required, (c) valves open or shut, (d) proper operation stops and damage may occur, or (e) the optimum value for normal operation

WORKING ACTION - A qualification that measures the ability to perform maintenance tasks that do not involve the correction of a malfunction





The following personnel, under the supervision of the PQS Development Group, made a significant contribution to the development of this PQS for Replenishment for Receiving and Delivery Ships:

BMCM	Richard BLAIR	NTTC, Treasure Island
BMCS	Everett HALCOTT	COMSERVGRU ONE
BMC	Joseph NELSON	USS DETROIT (AOE-4)
BMC	Richard WALES	USS MERRIMACK (AO-1)
BM1	Benny ADAMS	USS MAUNA KEA (AE-2)
BM1	Walter HANCOCK	FLETRACEN, San Diego
BM1	Paul KUNDE	COMSERVGRU TWO

ENLISTED SURFACE WARFARE SPECIALIST (ESWS)  
PQS CROSS-REFERENCE

completion of this PQS, the requirements for the following line  
ESWS PQS (NAVEDTRA 43390, Oct 1979) will be satisfied:

b, c; 13b, c, e, g, h, m, n, u; 14n, u, v, x; 15; 32a; 37e, f,  
b, c, d, f, g, h, i, k, m, o, p, q, r, s, t, u, w; 39a (rig onl  
d d

## FUNDAMENTALS

## SIGNATURE

Terminology

Sound-Powered Telephone

Marlinespike Seamanship

Deck Seamanship

Tools

Transfer Equipment

Astern Refueling

Safety Officer

Safety Precautions

## MS

Sound-Powered Telephone

Sliding Pad Eye

Highline (Manila/Synthetic)

Winch

Burton

Modified Housefall

Ram Tensioner

Transfer Head

Cargo Drop Reel

Standard Tensioning Procedure

## References:

- a. Naval Terms Dictionary
- b. Seaman (NAVEDTRA 10120)
- c. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- d. Replenishment At Sea (NWP 14, Rev A)
- e. Underway Replenishment Hardware and Equipment Manual (NAVSEA 0918-LP-000-2010)

### .1 Define the following terms:

- |                        |                    |
|------------------------|--------------------|
| a. Attachment point    | ar. Fishhook       |
| b. Avast               | as. Gooseneck      |
| c. Back suction        | at. Guy            |
| d. Backstay            | au. Gypsy head     |
| e. Barrel slings       | av. Hand-over-hand |
| f. Bear-a-hand         | aw. Head block     |
| g. Becket              | ax. Heave around   |
| h. Belay               | ay. Heel block     |
| i. Becket bend         | az. Highline       |
| j. Bight               | ba. Hitch          |
| k. Bitter end          | bb. Hoist          |
| l. Block               | bc. Cargo hold     |
| m. Blowdown            | bd. Hook           |
| n. Bolo                | be. Housefall      |
| o. Boom                | bf. Inboard        |
| p. Breakable spool     | bg. Inhaul         |
| q. Breakaway           | bh. King post      |
| r. Break off           | bi. Jackbox        |
| s. Break out           | bj. Jury rig       |
| t. Bulwark             | bk. Lash           |
| u. Burton              | bl. Lend-a-hand    |
| v. Capstan             | bm. Lifeline       |
| w. Coaling bag         | bn. Light line     |
| x. Cargo hook assembly | bo. Line           |
| y. Cargo net           | bp. Link           |
| z. Chafing gear        | bq. Lizard         |
| aa. Check              | br. Manifold       |
| ab. Cleat              | bs. Marlinespike   |
| ac. Close up           | bt. Marry          |
| ad. Coil               | bu. Messenger      |
| ae. CONREP             | bv. Mousing        |
| af. Conduits           | bw. Outrigger      |

ci.	Reeve	dt.	Strongback
cj.	Retrograde	du.	Surge
ck.	Riding line	dv.	Swedge fi
cl.	Rig	dw.	Swivel
cm.	Rigger's screw	dx.	Tackle
cn.	Rigging	dy.	Tag line
co.	Riser	dz.	Tail line
cp.	Robb coupling	ea.	Tension
cq.	Roddle	eb.	Thimble
cr.	Saddle	ec.	Topping l
cs.	Secure	ed.	Trolley
ct.	Seizing	ee.	Turnbuckl
cu.	Skip box	ef.	Two-block
cv.	Shackle	eg.	Unlay
cw.	Shot line	eh.	UNREP
cx.	Slack off	ei.	Up behind
cy.	Sling	ej.	Vang
cz.	Slushing	ek.	Walkaway
da.	Small stuff	el.	Walkout
db.	Snatch block	em.	Whip
dc.	Socket	en.	Winch
dd.	Span wire	eo.	Wire rope
de.	Spanner wrench	ep.	Yarn
df.	Splice	eq.	Yo-Yo blo
dg.	Split plug	er.	Cargo dro
dh.	Spot	es.	Emergency
di.	Stage	et.	Manila hi
dj.	Standby	eu.	Ram tensi
dk.	Steadying line	ev.	Remating
dl.	Stop off	ew.	Station-t line
dm.	Stopper	ex.	SURF
dn.	Stow	ey.	STAR
do.	Strand	ez.	Stress wi
dp.	Strain	fa.	Telephone
dq.	Strap	fb.	Transfer
dr.	STREAM	fc.	Wire rope
ds.	Strikedown	fd.	Sliding p

Reference:

- a. Basic Military Requirements (NAVEDTRA 10054)

Describe the basic operation of the sound-powered telephone system.

Explain proper sound-powered telephone procedures.

State the correct numeral and phonetic alphabet.

## References:

- a. Seaman (NAVEDTRA 10120)
- b. Boatswain's Mate 1 & C (NAVEDTRA 10122)
- c. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- d. Naval Ships' Technical Manual, Chap 613  
(NAVSEA S9086-UU-STM-000)
- e. Manufacturer's Technical Manual (NAVSEA 0918-LP)
- f. Replenishment At Sea (NWP 14, Rev A)

- .1 Explain/discuss the following in terms of natural fiber line:
  - a. Size determination
  - b. Type determination
  - c. Proper care
  - d. Serviceability determination
  - e. Line construction
- .2 Explain/discuss the following in terms of synthetic line:
  - a. Size determination
  - b. Type determination
  - c. Line construction
  - d. Proper care
  - e. Restriction on use
  - f. Serviceability determination
- .3 Explain/discuss the following in terms of wire rope:
  - a. Type
  - b. Size construction
  - c. Wire construction
  - d. Breaking strength formula
  - e. Proper care
  - f. Specific applications
  - g. Serviceability determination
- .4 Identify the following knots, bends, and hitches, and state the purpose for which each is used:

## MARLINE SPIKE SEAMANSHIP FUNDAMENTALS (CONT'D)

- 6 Explain how to apply the following fittings:
  - a. Swedge
  - b. Fiege
- 7 Explain the use and application of swivels.
- 8 State when a splice or end fitting is not used.
- 9 Explain how to apply whipping to a line.
- 10 Explain how to apply seizing to wire.
- 11 Discuss the rule for the following:
  - a. Seizing
  - b. Whipping
- 12 Explain how to mouse the following:
  - a. Shackle
  - b. Hook
- 13 Explain the proper method of:
  - a. Coiling down line
  - b. Faking down line
  - c. Using a line on a gypsy head or capstan
- 14 Explain the proper method of reeving and determining the mechanical advantage of:
  - a. Single whip
  - b. Runner
  - c. Gun tackle
  - d. Luff tackle (jigger)
  - e. Two-fold purchase (tackle)
  - f. Double-luff tackle
  - g. Three-fold purchase (tackle)



## DECK SEAMANSHIP FUNDAMENTALS

### References:

- a. Seaman (NAVEDTRA 10120)
- b. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- c. Underway Replenishment Hardware and Equipment Manual (NAVSEA 0918-LP-000-2010)
- d. Replenishment At Sea (NWP 14, Rev A)

.1 Explain the use of the following deck fittings:

- a. Pad eye
- b. Cleats
- c. Bitts
- d. Chocks
- e. Baxter bolt
- f. Cloverleaf

.2 Locate station test data label plates.

.3 Describe the characteristics of the following blocks:

- a. Fiber rope
- b. Diamond
- c. Snatch
- d. Oval
- e. Roller bearing

.4 Explain the advantages/disadvantages of a snatch block.

.5 Explain how to determine the size of a block.

.6 Explain the formula used to determine the block size to be used.

.7 Explain the use of the screw pin and safety shackles.

.8 Explain how to determine the size of a shackle.

.9 Describe how to safewire (mouse) a shackle pin.

.10 Explain the use of replenishment-at-sea (RAS) and fueling pelican hooks.

## TOOLS FUNDAMENTALS

### References:

- a. Replenishment At Sea (NWP 14, Rev A)
- b. Underway Replenishment Hardware and Equipment Manual (NAVSEA 0918-LP-000-2010)
- c. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- d. Boatswain's Mate 1 & C (NAVEDTRA 10122)
- e. Seaman (NAVEDTRA 10120)

Identify and explain the use of the following emergency break tools:

- a. Axe
- b. Hand hatchet
- c. Marlinespike (16-inch)
- d. Sledge hammer (10-to-12 pounds)

Identify and explain the use of the following working/repair

- a. Portable hydraulic wire rope cutter
- b. Shackle
- c. Seizing wire
- d. Slip joint pliers
- e. Chain stopper
- f. Spanner wrenches
- g. Adjustable wrenches (10-inch, 12-inch and 15-inch)
- h. Side cutter pliers
- i. Klein grip
- j. Ball-peen hammer (2-to-5 pounds)
- k. Steel cotter key
- l. Allen wrenches
- m. Standard screwdriver

Identify and explain the use of the following special tools:

- a. Velocity pole cutter
- b. Nonsparking tools
- c. Hose crimper

## References:

- a. Underway Replenishment Hardware and Equipment (NAVSEA 0918-LP-000-2010)
  - b. Replenishment At Sea (NWP 14, Rev A)
  - c. Naval Ships' Technical Manual, Chap 9200 (NAVSEA 0901-LP-200-0001)
  - d. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
  - e. Seaman (NAVEDTRA 10120)
- .1 Identify and discuss the following transfer-at-sea equipment:
    - a. STREAM
    - b. Housefall
    - c. Manila highline (fiber rope)
  - .2 Identify and explain the use of fueling-at-sea equipment.
  - .3 Identify and discuss the following fueling-at-sea equipment:
    - a. Probe
    - b. Robb
    - c. Breakable spool quick-release coupling (NATO)
  - .4 Explain the use of the following:
    - a. Probe relatching tool
    - b. Sleeve retractor
    - c. Shepherd's hook
    - d. Remating line hook
    - e. Hose crimper
  - .5 Identify and explain the safety devices used on at-sea equipment.
  - .6 Explain the use of the following trolley adapter:
    - a. Cargo drop reel
    - b. Hook adapter (cargo/personnel)
    - c. Gull wing strongback
    - d. Stream strongback

Explain the use of pallets.

Identify and discuss the following transfer-at-sea containers:

- a. Coaling bag
- b. Classified material bag

Identify what must be used in conjunction with a coaling bag during mail transfer.

Identify and discuss the following missile handling equipment:

- a. Transfer dolly
- b. Strongback
- c. Special weapons flotation gear

Identify and discuss the personnel transfer-at-sea chair.

Identify and discuss the personnel transfer-at-sea litter.

Discuss the location of tag lines.

Identify the following standard underway replenishment fixture SURF, traveling, actuated remotely (STAR) equipment:

- a. Traveling SURF
- b. STAR probe
- c. STAR latch assembly

Discuss the functions of the following:

- a. Station markers
- b. Station marker night light box

Discuss the functions of the following components associated with a winch:

- a. Drum
- b. Clutch lever
- c. Pawl
- d. Drum brake
- e. Start/stop switch

## Reference:

- a. Replenishment At Sea (NWP 14, Rev A)
- .1 Discuss the functions of the following equipment used in refueling:
- a. Grapnel
  - b. Support line
  - c. 2-1/2-inch hose
  - d. Nylon preventer
  - e. Flounder plate
  - f. Hose clamp
  - g. Position buoy
  - h. Pickup float

## SAFETY OFFICER FUNDAMENTALS

### References:

- a. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- b. Replenishment At Sea (NWP 14, Rev A)

State the functions and duties of a Safety Officer during under replenishment operations.

- a. Seaman (NAVEDTRA 10120)
- b. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- c. Boatswain's Mate 1 & C (NAVEDTRA 10122)
- d. Replenishment At Sea (NWP 14, Rev A)
- e. Naval Ships' Technical Manual, Chap 9200 (NAVSEA 0901-LP-200-0001)
- f. Underway Replenishment Hardware and Equipment Manual (NAVSEA 0918-LP-000-2010)
- g. Navy Safety Precautions for Forces Afloat (OPNAVI 1000)

.1 Describe the following as applied to personnel safety:

- a. Type of safety helmet to be worn
- b. Color-codes for safety helmets
- c. Color-codes for jerseys
- d. Type of life jacket to be worn
- e. Items worn with life jackets
- f. When gloves must be worn
- g. Type of shoes that must be worn by station personnel
- h. Who must carry a knife

.2 State the following as applied to line and wire handling:

- a. Minimum distance personnel should remain clear of
- b. Safety precautions that should be followed to remain clear of line or wire
- c. Safety precautions that should be followed while handling line
- d. Reason for handling line and wire hand-over-hand
- e. Method for fairleading/tending line to a gypsy head
- f. Reasons an untended line should never be left on a winch
- g. Danger signs for line and wire under stress

.3 State the following as applied to cargo handling:

- a. Precautions observed in the vicinity of a suspended load
- b. Type of cargo hook used
- c. Safety precautions that must be followed when handling combustible material
- d. Safety precautions that must be followed when handling hazardous materials (UNREP)
- e. Safety precautions that must be followed for cold storage

.4 State the following as applied to rig safety:

Safety signals and precautions to be followed when using the line-throwing gun or bolo

Conditions under which a wire is never tripped or cut



## SOUND-POWERED TELEPHONE SYSTEM

### References:

- Basic Military Requirements (NAVEDTRA 10054)
- Replenishment At Sea (NWP 14, Rev A)
- Underway Replenishment Hardware and Equipment Manual (NAVSEA 0918-LP-000-2010)

What is the function of this system?

Refer to a standard print of this system or to the actual equipment.

### SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- What is its function?
- Where is it located?
- What is the source of power?
- What are the modes of operation or control?
- What are the safety/protective devices?
- What protection is provided by it?
- What are the probable indications if this component fails?

	A	B	C	D	E	F	G
Transmitter	X	X	X				X
Receivers	X	X	X				X
Talk button	X	X		X			X
Cord	X	X					X
Breastplate	X	X					
Neck strap	X	X					
Jackbox	X	X	X		X	X	X

### PRINCIPLES OF OPERATION

How do the components work together to achieve the system's function?

What indications will you receive if the system is malfunctioning?

PARAMETERS - None to be discussed.

SYSTEM INTERFACE - None to be discussed.

202.1 What is the function of this system?

.11 Refer to a standard print of this system or to the

## 202.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following comp  
and component parts:

- A. What is its function?
- B. Where is it located?
- C. What is the source of power?
- D. What are the modes of operation or control?
- E. What are the safety/protective devices?
- F. What are the probable indications if this compo

	A	B	C	D	E	F
.21 Drive mechanism	X	X	X		X	X
.22 Limit switches	X	X	X			
.23 Operating controls	X	X	X	X		

202.3 PRINCIPLES OF OPERATION - None to be discussed.

202.4 PARAMETERS - None to be discussed.

## 202.5 SYSTEM INTERFACE

.51 How does loss of power affect this system?

202.6 SAFETY PRECAUTIONS - None to be discussed.

# HIGHLINE (MANILA/SYNTHETIC) SYSTEM

## References:

- a. Replenishment At Sea (NWP 14, Rev A)
- b. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- c. Boatswain's Mate 1 & C (NAVEDTRA 10122)
- d. Underway Replenishment Hardware and Equipment Manual (NAVSEA 0918-LP-000-2010)

What is the function of this system?

Refer to a standard print of this system or to the actual equipment.

## SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What are the safety/protective devices?

	<u>A</u>	<u>B</u>	<u>C</u>
Trolley block	X	X	
Transfer chair	X	X	X
Transfer stretcher/litter frame	X	X	X
Transfer hook	X	X	

PRINCIPLES OF OPERATION - None to be discussed.

PARAMETERS - None to be discussed.

SYSTEM INTERFACE - None to be discussed.

## SAFETY PRECAUTIONS

What special safety precautions apply to personnel transfer?

## References:

- a. Naval Ships' Technical Manual, Chap 9200  
(NAVSEA 0901-LP-200-0001)
- b. Manufacturer's Technical Manual

204.1 What is the function of this system?

.11 Refer to a standard print of this system or to the

204.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What is the source of power?
- D. What are the modes of operation or control?
- E. What are the safety/protective devices?
- F. What protection is provided by it?
- G. What are the probable indications if this component fails?

	A	B	C	D	E	F	G
.21 Drum	X	X					
.22 Gypsy head	X	X					
.23 Drum brake	X	X		X			
.24 Drum clutch	X	X		X	X	X	X
.25 Clutch lever	X	X		X			
.26 Drive motor	X	X	X				X
.27 Local controller	X	X		X	X		X
.28 Start/stop switch	X	X	X	X			
.29 Motor brake release	X	X					
.210 Rope guard	X	X					
.211 Load holding pawl	X	X		X			
.212 Spooling device	X	X					X

204.3 PRINCIPLES OF OPERATION

.31 What indications will you receive if the system is

What is the function of this system?

Refer to a standard print of this system or to the actual equipment.

SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What are the modes of operation or control?

	A	B	C
Ram tensioner (heavy burton)/cargo hoist blocks	X	X	X
Transfer head	X	X	X
Flounder plate	X	X	
Blocks double burton	X	X	

PRINCIPLES OF OPERATION

How do the components work together to achieve the system's function?

What indications will you receive if the system is malfunctioning?

PARAMETERS - None to be discussed.

SYSTEM INTERFACE

How does loss of power affect this system?

SAFETY PRECAUTIONS - None to be discussed.

## References:

- a. Replenishment At Sea (NWP 14, Rev A)
- b. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)

206.1 What is the function of this system?

.11 Refer to a standard print of this system or to the act

206.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What is the source of power?
- D. What are the modes of operation or control?
- E. What are the probable indications if this component

		A	B	C	D	E
.21	Trolley assembly	X	X			
.22	Sliding pad eye	X	X	X	X	X
.23	Housefall blocks	X	X			

206.3 PRINCIPLES OF OPERATION

.31 How do the components work together to achieve the system?

.32 What indications will you receive if the system is malfunctioning?

206.4 PARAMETERS - None to be discussed.

206.5 SYSTEM INTERFACE

.51 How does loss of power affect this system?

206.6 SAFETY PRECAUTIONS - None to be discussed.

## References:

- a. Hydraulic Ram Tensioner (NAVSEA 0920-LP-092-3010)
- b. Replenishment At Sea (NWP 14, Rev A)

What is the function of this system?

Refer to a standard print of this system or to the actual equipment.

SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What is the source of power?
- D. What are the modes of operation or control?
- E. What are the safety/protective devices?
- F. What protection is provided by it?
- G. What are the probable indications if this component fails?
- H. What are the interlocks?

	A	B	C	D
Air flask	X	X		
Ram cylinder	X	X	X	
Air-oil accumulator	X	X		
Ram	X	X		
Sheaves	X	X		
Valves/gauges	X	X		X
Position transmitter/indicator	X	X		
Internal stops	X	X		

PRINCIPLES OF OPERATION

How do the components work together to achieve the system's function?

PARAMETERS

For the items listed answer the following questions:

- A. Where are the parameters sensed or monitored?

207.5 SYSTEM INTERFACE (CONT'D)

.52 How does this system interface with the highline/span

207.6 SAFETY PRECAUTIONS

.61 What special safety precautions apply prior to:

- a. Charging the ram
- b. Discharging the ram



# TRANSFER HEAD SYSTEM

## References:

- a. Replenishment At Sea (NWP 14, Rev A)
- b. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- c. Boatswain's Mate 1 & C (NAVEDTRA 10122)

What is the function of this system?

Refer to a standard print of this system or to the actual equipment.

## SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What is the source of power?
- D. What are the modes of operation or control?
- E. What are the safety/protective devices?
- F. What protection is provided by it?
- G. What are the probable indications if this component fails?

	A	B	C	D	E	F	G
Drive mechanisms	X	X	X	X	X		X
Fairlead sheaves	X	X					
Sweep brake	X	X				X	X
Consolidation link	X	X					

## PRINCIPLES OF OPERATION

How do the components work together to achieve the system's function?

What indications will you receive if the system is malfunctioning?

PARAMETERS - None to be discussed.

## SYSTEM INTERFACE

How does loss of power affect this system?

## SAFETY PRECAUTIONS

## Reference:

a. Replenishment At Sea (NWP 14, Rev A)

209.1 What is the function of this system?

.11 Refer to a standard print of this system or to

209.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following and component parts:

A. What is its function?

B. Where is it located?

C. What are the safety/protective devices?

D. What protection is provided by it?

.21 Brake module

.22 Drum module

.23 Spring module

.24 Wire

.25 Navy ordnance (NAVORD) safety hook

.26 Positive lock device

.27 Brake release lanyard

.28 Cable extender assembly

209.3 PRINCIPLES OF OPERATION

.31 What is the sequence of component involvement

a. Lowering load?

b. Hoisting load?

209.4 PARAMETERS - None to be discussed.209.5 SYSTEM INTERFACE - None to be discussed.209.6 SAFETY PRECAUTIONS

61 What special safety precaution applies to the

Reference:

a. Replenishment At Sea (NWP 14, Rev A)

10.1 What is the function of this system?

.11 Refer to a standard print of this system or to the actual

10.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What is the source of power?
- D. What are the modes of operation or control?
- E. What are the safety/protective devices?
- F. What protection is provided by it?
- G. What are the probable indications if this component

	A	B
.21 Fairlead blocks	X	X
.22 Outhaul wire rope	X	X
.23 Inhaul wire rope	X	X
.24 Burton whip outhaul	X	X
.25 End fittings	X	X
.26 Standard underway replenishment fixture (SURF)	X	X
.27 SURF, traveling, actuated remotely (STAR) probe assembly	X	X
.28 STAR	X	X
.29 Fixed pad eye	X	X
.210 Pendant station	X	X
.211 Hand-tended manila outhaul	X	X
.212 Highline	X	X

10.3 PRINCIPLES OF OPERATION

.31 What indications will you receive if the system is malfunctioning?

10.4 PARAMETERS - None to be discussed.

## 211 FUEL RIG SYSTEM

### References:

- a. Boatswain's Mate 3 & 2 (NAVEDTRA 10121)
- b. Replenishment At Sea (NWP 14, Rev A)
- c. Underway Replenishment Hardware and Equipment Manual (NAVSEA 0918-LP-000-2010)

211.1 What is the function of this system?

.11 Refer to a standard print of this system or to the manual.

### 211.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What are the safety/protective devices?
- D. What protection is provided by it?
- E. What are the probable indications if this component fails?

- .21 12-inch wood snatch block
- .22 Pre-reeved messenger
- .23 Remating line
- .24 Single-/double-probe receiver
- .25 Portable/fixed tripods
- .26 Hoses (refueling)
- .27 Breakable spool quick-release coupling (NATO/SEATO)
- .28 2-1/2-inch quick-release coupling
- .29 Single-/double-probe
- .210 Male/female Robb
- .211 Type A and B saddles
- .212 Span wire weak-link/end fitting
- .213 Stress wires
- .214 Sliding sleeve retractor
- .215 Probe relatching tool

211.3 PRINCIPLES OF OPERATION None to be discussed

Reference:

- a. Replenishment At Sea (NWP 14, Rev A)

What is the function of this system?

Refer to a standard print of this system or to the actual equipment.

SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What are the safety/protective devices?
- D. What protection is provided by it?

	A	B	C	D
Support line	X	X		X
2-1/2-inch neoprene hose	X	X		
Nylon preventer	X	X		X
Wire rope pendant	X	X	X	X
2-1/2-inch quick-release coupling	X	X		
Hose clamp (3-3/8 inches in diameter, 12 inches long)	X	X		X
Pelican hook	X	X		X
Position buoy	X	X		X
Pickup float	X	X		
Connecting pendant	X	X		
Signaling flags	X	X		

PRINCIPLES OF OPERATION - None to be discussed.

PARAMETERS - None to be discussed.

SYSTEM INTERFACE - None to be discussed.

SAFETY PRECAUTIONS - None to be discussed.

213 ASTERN REFUELING BREAKABLE SPOOL QUICK-RELEASE  
COUPLING (NATO) SYSTEM

Reference:

- a. Replenishment At Sea (NWP 14, Rev A)

213.1 What is the function of this system?

- .11 Refer to a standard print of this system or to the

213.2 SYSTEM COMPONENTS AND COMPONENT PARTS

Discuss the designated items for the following components and component parts:

- A. What is its function?
- B. Where is it located?
- C. What are the safety/protective devices?
- D. What protection is provided by it?

- .21 Jaw end swivel
- .22 Grapple
- .23 3-ton swivel hook
- .24 Link
- .25 Messenger
- .26 Securing links
- .27 Flounder plates
- .28 Chain assembly
- .29 Bridle
- .210 Bridle pendant
- .211 Breakable spool NATO (B-end)
- .212 Breakable spool coupling (A-end)
- .213 7-inch hose
- .214 Probe swivel joint
- .215 Position/messenger/buoy
- .216 Support line

213.3 PRINCIPLES OF OPERATION - None to be discussed.

213.4 PARAMETERS - None to be discussed.

RATE/RANK \_\_\_\_\_

s to be used as a record of satisfactory completion of designated Personnel Qualification Standard (PQS). Only specified supervisory completion of applicable sections either by written or oral examination or observation of performance. The examination or checkout need not be 100%; however, a sufficient number should be covered to demonstrate knowledge. Should supervisors "give away" their signatures, difficulties can be expected in future routine operations.

Qualification section is to be maintained by the trainee and updated to reflect completion of remaining tasks.

-----

Upon satisfactory performance, it is recommended the trainee be promoted to a qualified LINE HANDLER (301).

\_\_\_\_\_  
(Supervisor) DATE \_\_\_\_\_

\_\_\_\_\_  
(Division Officer) DATE \_\_\_\_\_

\_\_\_\_\_  
(Department Head) DATE \_\_\_\_\_

\_\_\_\_\_  
(Commanding Officer) DATE \_\_\_\_\_

ENTRY \_\_\_\_\_  
(Personnel Officer) DATE \_\_\_\_\_

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED

\_\_\_\_\_  
(Training Officer/Date)



FINAL QUALIFICATION AS  
TELEPHONE TALKER

RATE/RANK \_\_\_\_\_

page is to be used as a record of satisfactory completion of de  
of the Personnel Qualification Standard (PQS). Only specified  
signify completion of applicable sections either by written or  
or by observation of performance. The examination or checkout  
ery item; however, a sufficient number should be covered to demo  
inee's knowledge. Should supervisors "give away" their signatur  
ary difficulties can be expected in future routine operations.

qualification section is to be maintained by the trainee and up  
awareness of remaining tasks.

-----  
ATION

ng observed satisfactory performance, it is recommended the trai  
nated a qualified TELEPHONE TALKER (302).

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Supervisor)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Division Officer)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Department Head)

D \_\_\_\_\_ DATE \_\_\_\_\_  
(Commanding Officer)

RECORD ENTRY \_\_\_\_\_ DATE \_\_\_\_\_  
(Personnel Officer)

QUALIFICATION SUMMARY

INDOCTRINATION

LETED \_\_\_\_\_  
(Training Officer/Date)

# FINAL QUALIFICATION AS SIGNALMAN

\_\_\_\_\_  
RATE/RANK

s to be used as a record of satisfactory completion of designated Personnel Qualification Standard (PQS). Only specified supervisory completion of applicable sections either by written or oral examination or observation of performance. The examination or checkout need not be 100%; however, a sufficient number should be covered to demonstrate knowledge. Should supervisors "give away" their signatures, difficulties can be expected in future routine operations.

Qualification section is to be maintained by the trainee and updated to reflect completion of remaining tasks.

-----  
If the trainee has received satisfactory performance, it is recommended the trainee be qualified SIGNALMAN (303).

\_\_\_\_\_  
(Supervisor) DATE

\_\_\_\_\_  
(Division Officer) DATE

\_\_\_\_\_  
(Department Head) DATE

\_\_\_\_\_  
(Commanding Officer) DATE

ENTRY \_\_\_\_\_  
(Personnel Officer) DATE

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED

\_\_\_\_\_  
(Training Officer/Date)

TELEPHONE TALKER (NAVEDTRA 43396-Q2)

COMPLETED

\_\_\_\_\_  
(Department Head/Date)

\_\_\_\_\_  
RATE/RANK

page is to be used as a record of satisfactory completion of de  
of the Personnel Qualification Standard (PQS). Only specified  
signify completion of applicable sections either by written or  
or by observation of performance. The examination or checkout  
every item; however, a sufficient number should be covered to demo  
inee's knowledge. Should supervisors "give away" their signatur  
ary difficulties can be expected in future routine operations.

qualification section is to be maintained by the trainee and up  
awareness of remaining tasks.

-----  
ATION

ng observed satisfactory performance, it is recommended the trai  
nated a qualified DECK RIGGER (304).

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Supervisor)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Division Officer)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Department Head)

D \_\_\_\_\_ DATE \_\_\_\_\_  
(Commanding Officer)

RECORD ENTRY \_\_\_\_\_ DATE \_\_\_\_\_  
(Personnel Officer)

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED \_\_\_\_\_  
(Training Officer/Date)

LINE HANDLER (NAVEDTRA 43396-Q1)

COMPLETED \_\_\_\_\_  
(Department Head/Date)

RATE/RANK \_\_\_\_\_

This page is to be used as a record of satisfactory completion of sections of the Personnel Qualification Standard (PQS). Only specific items may signify completion of applicable sections either by written examination, or by observation of performance. The examination or check must cover every item; however, a sufficient number should be covered to demonstrate the examinee's knowledge. Should supervisors "give away" their signature, necessary difficulties can be expected in future routine operations.

This qualification section is to be maintained by the trainee and the supervisor to be aware of remaining tasks.

-----  
QUALIFICATION

Having observed satisfactory performance, it is recommended the trainee be designated a qualified WINCH CHECKER (305).

RECOMMENDED \_\_\_\_\_ DATE \_\_\_\_\_  
(Supervisor)

RECOMMENDED \_\_\_\_\_ DATE \_\_\_\_\_  
(Division Officer)

RECOMMENDED \_\_\_\_\_ DATE \_\_\_\_\_  
(Department Head)

QUALIFIED \_\_\_\_\_ DATE \_\_\_\_\_  
(Commanding Officer)

PERSONNEL RECORD ENTRY \_\_\_\_\_ DATE \_\_\_\_\_  
(Personnel Officer)

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED

\_\_\_\_\_  
(Training Officer/Date)

TELEPHONE TALKER (NAVEDTRA 43396-Q2)

COMPLETED

\_\_\_\_\_  
(Department Head/Date)



RATE/RANK \_\_\_\_\_

age is to be used as a record of satisfactory completion of desig  
of the Personnel Qualification Standard (PQS). Only specified su  
signify completion of applicable sections either by written or or  
or by observation of performance. The examination or checkout ne  
y item; however, a sufficient number should be covered to demons  
ee's knowledge. Should supervisors "give away" their signatures  
y difficulties can be expected in future routine operations.

ualification section is to be maintained by the trainee and upda  
areness of remaining tasks.

-----  
TION

g observed satisfactory performance, it is recommended the trainee  
ated a qualified WINCH OPERATOR (306).

ED \_\_\_\_\_ DATE \_\_\_\_\_  
(Supervisor)

ED \_\_\_\_\_ DATE \_\_\_\_\_  
(Division Officer)

ED \_\_\_\_\_ DATE \_\_\_\_\_  
(Department Head)

\_\_\_\_\_ DATE \_\_\_\_\_  
(Commanding Officer)

RECORD ENTRY \_\_\_\_\_ DATE \_\_\_\_\_  
(Personnel Officer)

WINCH OPERATOR

QUALIFICATION SUMMARY

PQS INDOCTRINATION

COMPLETED \_\_\_\_\_  
(Training Officer/Date)

WINCH CHECKER (NAVEDTRA 43396-Q5)

COMPLETED \_\_\_\_\_  
(Department Head/Date)

FINAL QUALIFICATION AS  
SLIDING PAD EYE OPERATOR

RATE/RANK \_\_\_\_\_

page is to be used as a record of satisfactory completion of des of the Personnel Qualification Standard (PQS). Only specified signify completion of applicable sections either by written or or by observation of performance. The examination or checkout every item; however, a sufficient number should be covered to demon inee's knowledge. Should supervisors "give away" their signature ary difficulties can be expected in future routine operations.

qualification section is to be maintained by the trainee and up awareness of remaining tasks.

-----  
ATION

ng observed satisfactory performance, it is recommended the train ated a qualified SLIDING PAD EYE OPERATOR (307).

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Supervisor)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Division Officer)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Department Head)

D \_\_\_\_\_ DATE \_\_\_\_\_  
(Commanding Officer)

RECORD ENTRY \_\_\_\_\_ DATE \_\_\_\_\_  
(Personnel Officer)

QUALIFICATION SUMMARY

ENDOCTRINATION

LETED

\_\_\_\_\_  
(Training Officer/Date)

RATE/RANK \_\_\_\_\_

page is to be used as a record of satisfactory completion of de  
of the Personnel Qualification Standard (PQS). Only specified  
signify completion of applicable sections either by written or  
or by observation of performance. The examination or checkout  
every item; however, a sufficient number should be covered to demo  
inee's knowledge. Should supervisors "give away" their signatur  
any difficulties can be expected in future routine operations.

qualification section is to be maintained by the trainee and up  
awareness of remaining tasks.

-----  
ATION

ng observed satisfactory performance, it is recommended the trai  
nated a qualified RIG CAPTAIN (308).

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Supervisor)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Division Officer)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Department Head)

D \_\_\_\_\_ DATE \_\_\_\_\_  
(Commanding Officer)

RECORD ENTRY \_\_\_\_\_ DATE \_\_\_\_\_  
(Personnel Officer)

QUALIFICATION SUMMARYPQS INDOCTRINATIONCOMPLETED \_\_\_\_\_  
(Training Officer/Date)SIGNALMAN (NAVEDTRA 43396-Q3)COMPLETED \_\_\_\_\_  
(Department Head/Date)DECK RIGGER (NAVEDTRA 43396-Q4)COMPLETED \_\_\_\_\_  
(Department Head/Date)WINCH OPERATOR (NAVEDTRA 43396-Q6)COMPLETED \_\_\_\_\_  
(Department Head/Date)SLIDING PAD EYE OPERATOR (NAVEDTRA 43396-Q7)COMPLETED \_\_\_\_\_  
(Department Head/Date)

# FINAL QUALIFICATION AS SAFETY OFFICER

RATE/RANK \_\_\_\_\_

page is to be used as a record of satisfactory completion of the Personnel Qualification Standard (PQS). Only specified signify completion of applicable sections either by written or by observation of performance. The examination or checkout every item; however, a sufficient number should be covered to demonstrate the trainee's knowledge. Should supervisors "give away" their signature, any difficulties can be expected in future routine operations.

qualification section is to be maintained by the trainee and up awareness of remaining tasks.

## ATION

ng observed satisfactory performance, it is recommended the trainee be designated a qualified SAFETY OFFICER (309).

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Supervisor)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Division Officer)

DED \_\_\_\_\_ DATE \_\_\_\_\_  
(Department Head)

D \_\_\_\_\_ DATE \_\_\_\_\_  
(Commanding Officer)

RECORD ENTRY \_\_\_\_\_ DATE \_\_\_\_\_  
(Personnel Officer)

QUALIFICATION SUMMARY

INDOCTRINATION

COMPLETED \_\_\_\_\_  
(Training Officer/Date)



ed completion time: 19 weeks

starting your assigned tasks, complete the following items:

ndamentals: 101, 103, 104 and 109 (70% of watchstation)

e tasks listed below:

at are the steps of this procedure?  
 at are the reasons for each step?  
 at control/coordination is required?  
 at communications must be established?  
 at safety precautions must be observed?  
 at parameters must be monitored?  
 rform this task.

safety line/temporary lifeline

A	B	C	D	E	F	G
X	X	X		X		X

ture) \_\_\_\_\_ (Date)

telephone and distance line

X	X		X	X	X	X
---	---	--	---	---	---	---

ture) \_\_\_\_\_ (Date)

essenger line

X	X			X		X
---	---	--	--	---	--	---

ture) \_\_\_\_\_ (Date)

station-to-station telephone line

X	X			X		X
---	---	--	--	---	--	---

ture) \_\_\_\_\_ (Date)

teadying line

X	X	X		X		X
---	---	---	--	---	--	---

### 301.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What emergencies or malfunctions may occur if not taken?
- F. Perform or simulate the corrective/immediate abnormal condition.

.31 Kinks in line

\_\_\_\_\_  
(Signature) (Date)

.32 Foul line

\_\_\_\_\_  
(Signature) (Date)

Completion of .3 area comprises 5% of watchstander

### 301.4 EMERGENCIES

For the emergency conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What other emergencies or malfunctions may occur if action is not taken?
- F. How does this emergency affect other operations at watchstations?
- G. Perform or simulate the immediate action for condition.

.41 Man overboard

WATCHES  
Stand 3 special evolution watches under qualified supervision

SIGNATURE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Completion of .5 area comprises 10% of watchstation.

## WATCHSTATION - TELEPHONE TALKER

Estimated completion time: 11 weeks

Before starting your assigned tasks, complete the following i

Fundamentals: 101, 102 and 109 (65% of watchstation)

System: 201 (5% of watchstation)

### TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What communications must be established?
- E. Perform this task.

1 Set up sound-powered telephones

A	B	C	D
X	X	X	

\_\_\_\_\_  
(Signature) (Date)

2 Test communications

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

3 Transmit message using standard phraseology/  
procedures

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

4 Receive and record messages using standard  
phraseology/procedures

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

### 302.2 INFREQUENT TASKS

For the infrequent tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What communications must be established?
- D. What conditions require this infrequent task?
- E. Perform or simulate this task.

.21 Transmit through earpiece

\_\_\_\_\_  
(Signature) (Date)

.22 Receive through mouthpiece

\_\_\_\_\_  
(Signature) (Date)

Completion of .2 area comprises 5% of watchstat

### 302.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What operating limitations are imposed?
- D. Perform or simulate the corrective/immediate action for each abnormal condition.

.31 Loss of communications

\_\_\_\_\_  
(Signature) (Date)

Completion of .3 area comprises 5% of watchstat

### 302.4 EMERGENCIES - None to be discussed.

Stand 6 special evolution watches under qualified supervi

SIGNATURE

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---

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Completion of .5 area comprises 10% of watchstation.



Estimated completion time: 12 weeks

Before starting your assigned tasks, complete the following items

PQS Qualification: NAVEDTRA 43396-Q2

Fundamentals: 104 and 105 (10% of watchstation)

### TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What communications must be established?
- E. Perform this task.

1. Inventory/check out signalman kit for proper operation

\_\_\_\_\_  
(Signature) (Date)

2. Signal heave around

\_\_\_\_\_  
(Signature) (Date)

3. Signal avast

\_\_\_\_\_  
(Signature) (Date)

4. Signal slack off

\_\_\_\_\_  
(Signature) (Date)

5. Signal hooked up/connected

\_\_\_\_\_  
(Signature) (Date)



.18 Signal UNREP complete at this station/commence

\_\_\_\_\_  
(Signature) (Date)

.19 Signal pelican hook to be tripped

\_\_\_\_\_  
(Signature) (Date)

.110 Signal trip pelican hook

\_\_\_\_\_  
(Signature) (Date)

.111 Signal tension

\_\_\_\_\_  
(Signature) (Date)

.112 Signal de-tension

\_\_\_\_\_  
(Signature) (Date)

.113 Signal commence blowdown

\_\_\_\_\_  
(Signature) (Date)

.114 Signal cease blowdown

\_\_\_\_\_  
(Signature) (Date)

.115 Signal test sound-powered telephones

\_\_\_\_\_  
(Signature) (Date)

.116 Signal replace sound-powered telephones

.119 Signal emergency breakaway

\_\_\_\_\_  
(Signature) (Date)

Completion of .1 area comprises 55% of watchstation.

.2 INFREQUENT TASKS

For the infrequent tasks listed below:

- A. What are the steps of this procedure?
- B. Perform or simulate this task.

.21 Signal during astern fueling

\_\_\_\_\_  
(Signature) (Date)

Completion of .2 area comprises 20% of watchstation.

.3 ABNORMAL CONDITIONS - None to be discussed.

.4 EMERGENCIES

For the emergency conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What other emergencies or malfunctions may occur if immediate action is not taken?
- F. How does this emergency affect other operations/equipment watchstations?
- G. Perform or simulate the immediate action for this emergency condition.

.41 Emergency breakaway

\_\_\_\_\_  
(Signature) (Date)

Stand 10 special evolution watches under qualification  
(Five must be during night operations.)

SIGNATURE

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Completion of .5 area comprises 10% of watches

Estimated completion time: 16 weeks

Before starting your assigned tasks, complete the following items

PQS Qualification: NAVEDTRA 43396-Q1

Fundamentals: 105, 106 and 107 (15% of watchstation)

Systems: 202, 203, 205, 206, and 208 thru 213  
(40% of watchstation)

## TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What safety precautions must be observed?
- E. Perform this task.

Check personal equipment

\_\_\_\_\_  
(Signature) (Date)

Lay out station tools

\_\_\_\_\_  
(Signature) (Date)

Inventory emergency breakaway kit

\_\_\_\_\_  
(Signature) (Date)

Rig receiving/delivery station

\_\_\_\_\_  
(Signature) (Date)

Rig station marker/lighting (day/night)

.18 Receive span wire/highline

\_\_\_\_\_  
(Signature) (Date)

.19 Connect/disconnect fueling probe rig

\_\_\_\_\_  
(Signature) (Date)

.110 Operate cargo drop reel

\_\_\_\_\_  
(Signature) (Date)

.111 Sling/unsling cargo

\_\_\_\_\_  
(Signature) (Date)

.112 Disconnect rig

\_\_\_\_\_  
(Signature) (Date)

.113 Unrig station

\_\_\_\_\_  
(Signature) (Date)

.114 Stow station equipment

\_\_\_\_\_  
(Signature) (Date)

.115 Connect/disconnect fueling Robb rig

\_\_\_\_\_  
(Signature) (Date)

.116 Connect/disconnect cargo rig

119 Install cargo drop reel to trolley

\_\_\_\_\_  
(Signature) (Date)

120 Install gull wing fitting to trolley

\_\_\_\_\_  
(Signature) (Date)

121 Install 5-ton cargo hook to trolley

\_\_\_\_\_  
(Signature) (Date)

122 Replace fuel hose section

\_\_\_\_\_  
(Signature) (Date)

Completion of .1 area comprises 20% of watchstation.

#### INFREQUENT TASKS

For the infrequent tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What safety precautions must be observed?
- E. Perform or simulate this task.

21 Connect/disconnect NATO fueling rig

\_\_\_\_\_  
(Signature) (Date)

Completion of .2 area comprises 5% of watchstation.

For the abnormal conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What emergencies or malfunctions may occur if no action is not taken?
- F. How does this condition affect other operating watchstations?
- G. Perform or simulate the corrective/immediate action for the abnormal condition.

.31 Ship separation

\_\_\_\_\_  
(Signature) (Date)

.32 Station relative position

\_\_\_\_\_  
(Signature) (Date)

Completion of .3 area comprises 5% of watches

#### 304.4 EMERGENCIES

For the emergency conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What other emergencies or malfunctions may occur if no action is not taken?
- F. How does this emergency affect other operating watchstations?
- G. Perform or simulate the immediate action for the emergency condition.

.41 Emergency breakaway

Stand 12 special evolution watches under qualified supervision  
(Three must be during night operations.)

SIGNATURE

Completion of .5 area comprises 10% of watchstation.



Estimated completion time: 10 weeks

Before starting your assigned tasks, complete the following it

PQS Qualification: NAVEDTRA 43396-Q2

Fundamentals: 103, 104 and 106 (15% of watchstation)

Systems: 204 thru 207, 210, and 211 (25% of watchstation)

## TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What safety precautions must be observed?
- E. What parameters must be monitored?
- F. Perform this task.

1 Pre-operational check

A	B	C	D
X	X	X	X

\_\_\_\_\_  
(Signature) (Date)

2 Engage clutch

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

3 Disengage clutch

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

4 Set brake

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

5 Release brake (manual/hydraulic)

X	X	X	X
---	---	---	---

.17 Release pawl

\_\_\_\_\_  
(Signature) (Date)

.18 Monitor temperature during normal operations

\_\_\_\_\_  
(Signature) (Date)

.19 Monitor winch spooling

\_\_\_\_\_  
(Signature) (Date)

.110 Monitor unusual winch noise

\_\_\_\_\_  
(Signature) (Date)

.111 Monitor fairlead of wire

\_\_\_\_\_  
(Signature) (Date)

Completion of .1 area comprises 15% of watches

### 305.2 INFREQUENT TASKS

For the infrequent tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What communications must be established?
- E. What safety precautions must be observed?
- F. What parameters must be monitored?
- G. Perform or simulate this task.

.21 Operate winch at local control

\_\_\_\_\_  
(Signature) (Date)

# ABNORMAL CONDITIONS

For the abnormal conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What emergencies or malfunctions may occur if immediate action not taken?
- F. How does this condition affect other operations/equipment/watchstations?
- G. What followup action is required?
- H. Perform or simulate the corrective/immediate action for the abnormal condition.

1	Spooling malfunction	<table border="0"><tr><td>A</td><td>B</td><td>C</td><td>D</td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>	A	B	C	D	X	X	X	X
A	B	C	D							
X	X	X	X							

\_\_\_\_\_  
(Signature) (Date)

2	Winch noise	<table border="0"><tr><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>	X	X	X	X
X	X	X	X			

\_\_\_\_\_  
(Signature) (Date)

3	Frayed/kinked wire	<table border="0"><tr><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>	X	X	X	X
X	X	X	X			

\_\_\_\_\_  
(Signature) (Date)

4	Fairlead malfunction	<table border="0"><tr><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>	X	X	X	X
X	X	X	X			

\_\_\_\_\_  
(Signature) (Date)

5	Winch malfunction	<table border="0"><tr><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>	X	X	X	X
X	X	X	X			

\_\_\_\_\_  
(Signature) (Date)

Completion of .3 area comprises 15% of watchstation.

For the emergency conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What other emergencies or malfunctions may occur if no action is not taken?
- F. How does this emergency affect other operations at the watchstations?
- G. Perform or simulate the immediate action for this condition.

.41 Birdcaging of wire

\_\_\_\_\_  
(Signature) (Date)

.42 Winch malfunction

\_\_\_\_\_  
(Signature) (Date)

.43 Parted wire

\_\_\_\_\_  
(Signature) (Date)

.44 Fairlead malfunction

\_\_\_\_\_  
(Signature) (Date)

Completion of .4 area comprises 15% of watchstation

305.5

WATCHES

Stand 5 special evolution watches under qualified

SIGNATURE

Estimated completion time: 3 weeks

Before starting your assigned tasks, complete the following tasks

PQS Qualification: NAVEDTRA 43396-Q5

System: 208 (10% of watchstation)

## TASKS

For the tasks listed below:

- What are the steps of this procedure?
- What are the reasons for each step?
- What control/coordination is required?
- What safety precautions must be observed?
- Perform this task.

	A	B	C	D
Pre-operational check	X	X		X
(Signature) _____ (Date) _____				
Energize/start winch	X	X		X
(Signature) _____ (Date) _____				
Operate tension mode (hauling winch)	X	X	X	X
(Signature) _____ (Date) _____				
Operate tension mode (highline/span wire)	X	X	X	X
(Signature) _____ (Date) _____				
Operate antislack device	X	X		
(Signature) _____ (Date) _____				

\_\_\_\_\_  
(Signature) (Date)

.19 Operate the transfer head/sliding block

\_\_\_\_\_  
(Signature) (Date)

Completion of .1 area comprises 35% of watches

306.2 INFREQUENT TASKS - None to be discussed.

306.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What emergencies or malfunctions may occur if not taken?
- F. How does this condition affect other operations watchstations?
- G. What followup action is required?
- H. Perform or simulate the corrective/immediate abnormal condition.

.31 Ram alarm

\_\_\_\_\_  
(Signature) (Date)

.32 Ship's separation

\_\_\_\_\_  
(Signature) (Date)

.33 Rig malfunction

\_\_\_\_\_  
(Signature) (Date)

For the emergency conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What operating limitations are imposed?
- D. What other emergencies or malfunctions may occur if immediate action is not taken?
- E. How does this emergency affect other operations/equipment/watchstations?
- F. Perform or simulate the immediate action for this emergency condition.

41 Man overboard

A	B	C	D
X	X	X	X

\_\_\_\_\_  
(Signature) (Date)

42 Steering casualty

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

43 Loss of power

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

44 Rig casualty

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

45 Imminent collision

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

46 Emergency breakaway

X	X	X	X
---	---	---	---

\_\_\_\_\_  
(Signature) (Date)

Stand 6 special evolution watches under qualified

SIGNATURE

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Completion of .5 area comprises 15% of watchst



Estimated completion time: 19 weeks

Before starting your assigned tasks, complete the following

Fundamentals: 101, 103, 104, 105 and 109 (65% of watchstation)

System: 202 (10% of watchstation)

307.1 TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What safety precautions must be observed?
- E. Perform this task.

.11 Pre-operational check

A E  
X X

\_\_\_\_\_  
(Signature) (Date)

.12 Energize/start sliding pad eye

X X

\_\_\_\_\_  
(Signature) (Date)

.13 Operational check

X X

\_\_\_\_\_  
(Signature) (Date)

.14 Operate sliding pad eye

X X

\_\_\_\_\_  
(Signature) (Date)

.15 De-energize sliding pad eye

X X

For the infrequent tasks listed below:

- What are the steps of this procedure?
- What are the reasons for each step?
- What control/coordination is required?
- What safety precautions must be observed?
- Perform or simulate this task.

.21 Operate sliding pad eye manually

(Signature) (Date)

Completion of .2 area comprises 5% of watchstation

### 307.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What emergencies or malfunctions may occur if immediate action is not taken?
- F. Perform or simulate the corrective/immediate action for the abnormal condition.

.31 Limit switch malfunction

(Signature) (Date)

### .32 Drive malfunction

(Signature) (Date)

Completion of .3 area comprises 5% of watchstation

## 307.4 EMERGENCIES

For the emergency conditions listed below:

.41 Emergency breakaway

(Signature) \_\_\_\_\_ (Date) \_\_\_\_\_

Completion of .4 area comprises 5% of watchstation.

307.5 WATCHES

Stand 4 special evolution watches under qualified supervision

SIGNATURE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Completion of .5 area comprises 5% of watchstation.

Estimated completion time: 18 weeks

Before starting your assigned tasks, complete the following items:

PQS Qualifications: NAVEDTRA 43396-Q3, NAVEDTRA 43396-Q4,  
NAVEDTRA 43396-Q6, and NAVEDTRA 43396-Q7

## TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What communications must be established?
- E. What safety precautions must be observed?
- F. Perform this task.

1. Muster/assign personnel

A	B	C	D	E
X	X	X		

\_\_\_\_\_  
(Signature) (Date)

2. Inspect rigging/personnel

X	X	X		
---	---	---	--	--

\_\_\_\_\_  
(Signature) (Date)

3. Brief (duties/safety)

X	X	X		
---	---	---	--	--

\_\_\_\_\_  
(Signature) (Date)

4. Inventory required equipment/tools

X	X	X		
---	---	---	--	--

\_\_\_\_\_  
(Signature) (Date)

5. Pre-operational machinery check

X	X	X	X	
---	---	---	---	--

\_\_\_\_\_  
(Signature) (Date)

(Signature)

(Date)

.19 Supervise station rigging

(Signature)

(Date)

.110 Supervise station replenishment evolution

(Signature)

(Date)

.111 Supervise station unrigging

(Signature)

(Date)

.112 Supervise inspection and stowage of equipment/

(Signature)

(Date)

.113 Send/acknowledge whistle signals for shot line

(Signature)

(Date)

.114 Supervise rigging housefall rig

(Signature)

(Date)

.115 Supervise rigging burton rig

(Signature)

(Date)

.116 Supervise rigging double burton

(Signature)

(Date)

.117 Supervise rigging STAR

118 Supervise rigging traveling SURF

\_\_\_\_\_  
(Signature) (Date)

119 Supervise rigging manila highline

X X X

\_\_\_\_\_  
(Signature) (Date)

120 Supervise rigging burton outhaul

X X X

\_\_\_\_\_  
(Signature) (Date)

121 Supervise rigging manila outhaul

X X X

\_\_\_\_\_  
(Signature) (Date)

122 Supervise rigging refueling rig

X X X

\_\_\_\_\_  
(Signature) (Date)

Completion of .1 area comprises 60% of watchstation.

2 INFREQUENT TASKS - None to be discussed.3 ABNORMAL CONDITIONS

For the abnormal conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What emergencies or malfunctions may occur if immediate action not taken?
- F. How does this condition affect other operations/equipment watchstations?
- G. What followup action is required?

\_\_\_\_\_  
(Signature) (Date)

.33 Uneven station alignment

\_\_\_\_\_  
(Signature) (Date)

Completion of .3 area comprises 10% of watchsta

### 308.4 EMERGENCIES

For the emergency conditions listed below:

- A. What indications and alarms are received?
- B. What immediate action is required?
- C. What are the probable causes?
- D. What operating limitations are imposed?
- E. What other emergencies or malfunctions may occur if action is not taken?
- F. How does this emergency affect other operations at watchstations?
- G. Perform or simulate the immediate action for this condition.

.41 Emergency breakaway

\_\_\_\_\_  
(Signature) (Date)

.42 Collision

\_\_\_\_\_  
(Signature) (Date)

.43 Rig casualty

\_\_\_\_\_  
(Signature) (Date)

.44 Steering casualty

Stand 20 special evolution watches under qualified supervision.  
(Five must be during night operations.)

SIGNATURE

DATE





Estimated completion time: 19 weeks

Before starting your assigned tasks, complete the following items

Fundamentals: 101 thru 109 (30% of watchstation)

Systems: 201 thru 213 (35% of watchstation)

## TASKS

For the tasks listed below:

- A. What are the steps of this procedure?
- B. What are the reasons for each step?
- C. What control/coordination is required?
- D. What communications must be established?
- E. What safety precautions must be observed?
- F. Perform this task.

	A	B	C	D	E	F
Brief station personnel	X	X				X
(Signature) _____ (Date) _____						
Enforce personnel/rig safety precautions	X	X	X		X	X
(Signature) _____ (Date) _____						
Establish communications	X	X	X	X	X	X
(Signature) _____ (Date) _____						
Monitor rigging	X	X			X	X
(Signature) _____ (Date) _____						
Report readiness	X	X	X		X	X

309.3 ABNORMAL CONDITIONS - None to be discussed.

309.4 EMERGENCIES - None to be discussed.

309.5 WATCHES

Stand 10 special evolution watches under qualified sup  
(Three must be during night operations.)

SIGNATURE

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Completion of .5 area comprises 25% of watchstation

Personnel Qualification Standard  
Information Report and Suggestion Sheet  
PQS DEVGRU AUTOVON 957-5367

DATE \_\_\_\_\_

Address \_\_\_\_\_

AUTOVON # \_\_\_\_\_

Standard Affected \_\_\_\_\_

NAVEDTRA # \_\_\_\_\_

Affected \_\_\_\_\_

Recommendations (Use additional sheets if necessary)

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